

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
9 October 2003 (09.10.2003)

PCT

(10) International Publication Number
WO 03/083102 A2

(51) International Patent Classification⁷: C12N 9/16,
C12Q 1/42, G01N 33/574, C12Q 1/68, G01N 33/573,
A61K 49/00

(21) International Application Number: PCT/CA03/00393

(22) International Filing Date: 19 March 2003 (19.03.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/368,859 28 March 2002 (28.03.2002) US

(71) Applicant (*for all designated States except US*):
KINETEK PHARMACEUTICALS, INC. [CA/CA];
1779 West 75th Avenue, Vancouver, British Columbia
V6P 6P2 (CA).

(72) Inventor; and

(75) Inventor/Applicant (*for US only*): DELANEY, Allen, D.
[CA/CA]; 1633 West 65th Avenue, Vancouver, British Columbia V6P 2R2 (CA).

(74) Agent: SMART & BIGGAR; Kingwell, Brian, G., Box
11560, Vancouver Centre, Suite 2200, 650 West Georgia
Street, Vancouver, British Columbia V6B 4N8 (CA).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD,
SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US,
UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



A2
WO 03/083102

(54) Title: CANCER-ASSOCIATED PROTEIN PHOSPHATASES AND THEIR USES

(57) Abstract: Detection of expression of the provided phosphatases in cancers is useful as a diagnostic, for determining the effectiveness of drugs, and for determining patient prognosis. The encoded polypeptides further provide a target for screening pharmaceutical agents effective in inhibiting the growth or metastasis of tumor cells. The present invention further provides methods and compositions relating to agents that specifically bind to MKPX, PTP4A1, PTPN7, FEM-2, DKFZP566K0524 or FLJ20313 for treatment and visualization of tumors in patients.